AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions, and listings, of claims in the application:

- 1. (Currently amended) A light emitting heterostructure comprising:
 - a substrate;
 - a light generating structure formed over the substrate;

an electron blocking layer formed over the light generating structure, wherein the electron blocking layer allows light to pass therethrough;

a distributed semiconductor heterostructure Bragg reflector (DBR) structure formed over the light generating structure electron blocking layer; and

- a p-type layer formed over the DBR structure.
- 2. (Canceled)
- 3. (Original) The heterostructure of claim 1, further comprising:
 - a buffer layer formed on the substrate; and
- a second layer formed on the buffer layer, wherein the light generating structure is formed on the second layer.
- 4. (Original) The heterostructure of claim 3, further comprising a contact layer formed on the second layer.

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a second contact formed above the p-type layer.

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15. (Currently amended) The device of claim 11, wherein the device comprises at least one of[-] a light emitting diode (LED), an ultraviolet LED, and or a laser. 16. (Currently amended) An ultraviolet light emitting heterostructure comprising: an n-type layer; a light generating structure formed over the n-type layer; an electron blocking layer formed over the light generating structure, wherein the electron blocking layer allows light to pass therethrough: a distributed semiconductor heterostructure Bragg reflector (DBR) structure formed over the hight generating structure electron blocking layer; and a p-type layer formed over the DBR structure. Claims 17-20 (Withdrawn) 21. (Previously presented) The heterostructure of claim 16, further comprising a substrate, wherein the n-type layer formed over the substrate. 22. (Previously presented) The heterostructure of claim 1, further comprising an n-type layer formed over the substrate, wherein the light generating structure is formed over the n-type layer. Page 5 of 10 Serial No. 10/690,760

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